

## Patent Abstracts of Japan

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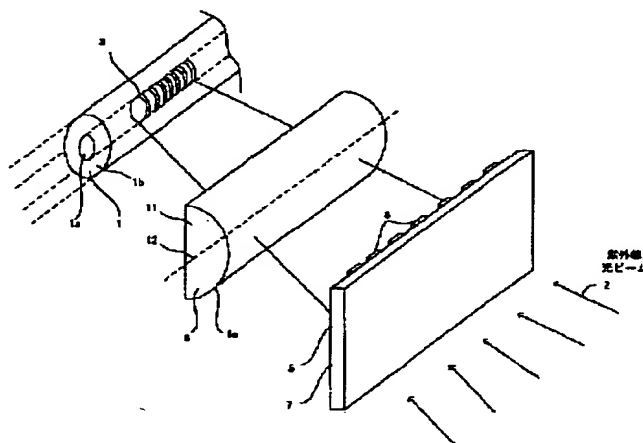
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APPLICANT : SHOWA ELECTRIC WIRE & CABLE CO  
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TITLE : DEVICE AND METHOD FOR  
GENERATING LONG-CYCLE FIBER  
GRATING



ABSTRACT : PROBLEM TO BE SOLVED: To generate the long-cycle fiber grating in an optical fiber in high-precision pattern stably in a short time.

SOLUTION: The optical fiber 1 is irradiated cyclically with an ultraviolet light beam 2 along its length to form the long-cycle fiber grating 3. This device is equipped with a multi-slit mask 5 on which the ultraviolet light beam is made incident and a condenser lens 6 on which the ultraviolet light beam projected from the multi-slit mask is made incident to irradiate the optical fiber.

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